Course Title	**Research Methodology in Nursing and Evidence Based Nursing**				
Course Code	**NURS407**				
Course Type	Compulsory				
Level	Bachelor (1st Cycle)				
Year / Semester	4th / Fall				
Instructor's Name	Dr. Despina Sapountzi-Krepia				
ECTS	3	Lectures / week	2+1*	Laboratories/week	-
Course Purpose	The aim of the course is to familiarize students with the concepts and the principles underlying the field of Research Methodology in Nursing, to provide students with deep knowledge of the theories and methodologies related to the course and to enable students develop the skills required for the design, application and analysis of a research project on a specific nursing topic.				
Learning Outcomes	- Discuss the concepts, principles and methods of scientific process and nursing research, - Criticise the concepts and procedures for evaluating and testing research and null hypotheses, the research process of measuring, the scales of measurement, - Discuss the importance of formulating a research proposal and the concepts of reliability and validity in quantitative research, - Compare the procedures of probability and non-probability sampling, the advantages and disadvantages of surveys and interviews in research, the statistical analysis methods and the aims of qualitative research. - Explain the sources of nursing knowledge and research problems, hypotheses, sources and bibliographic search methods and reference systems - List the characteristics of experimental and non-experimental research projects, the concepts of target populations and samples in research, traditional approaches to qualitative research and qualitative data analysis procedures. - Identify the types of variables, structured and unstructured methods of observations and interviews. - Describe the characteristics, purposes and limits of scientific research, the phases and steps of research process, the different experimental and survey designs, the types of research questions, the steps of literature review, sampling techniques and the characteristics of data collection methods. - Develop skills for writing research problem, research questions, hypotheses and the collection of research data. - Evaluate the characteristics of measuring procedures. - Organise the searching of nursing literature and are able to conduct a literature review. - Write information useful to address the customer's problem or situation. - Criticize internal and external data in the evaluation phase of the evidence, so that it serves to make their clinical decision.				

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<tr><td></td><td colspan="3">- Criticize the evaluation of internal evidence, determine whether an intervention had a positive or negative impact on the client.
- Analyse data from the scientific research literature, answer clinical questions such as whether an evaluation measures what it intended to measure or whether a therapeutic approach is effective in causing change in individuals.
- Assess the quality of external evidence is variable, therefore this step of evaluating evidence is critical and includes determining the reliability, and applicability to the situation and needs of each customer.
- Criticise the external evidence can help determine if the findings of the study can help guide clinical decisions.
- Criticize existing Models and Theories regarding the application of Evidence-Based Practice (Evidence-Based Practice) and the application of EIA after existing evidence of changes in care that are likely to improve clinical outcome, reduce costs, and reduce relatively high incidence. mistakes.
- Discuss the process of implementation of the EIA and the limitations in its application to quantitative and qualitative research data - Sources of indications.
- Review the research query configuration and the advanced bibliography search. What are considered the most important databases for Nursing and Health Sciences and how we use them.
- Identify what is considered valid information and what we classify as evidence and the Critical Evaluation Strategies of research data
- Review the application of the EIA indications to a specific patient and evaluate the whole procedure including the evaluation of the application process and its results</td></tr>
<tr><td>Prerequisites</td><td>None</td><td>Corequisites</td><td>None</td></tr>
<tr><td>Course Content</td><td colspan="3">- Scientific Research: Nature, Sources of Knowledge of Nursing Science
- Scientific Method: Key Elements and the production of new knowledge, observation, description and measurement.
- Specialisation and induction, Assumptions, Theories.
- The controlled observation, verification, dependency theory and observation, the validity of induction, paradigms in nursing research.
- The research proposal - the research protocol.
- Research Organisation: intellectual phase, design phase and planning phase, the empirical phase, the analytical phase, the phase of dissemination.
- The exploration of the literature – Literature Review.
- The research problem and formulation of research questions.
- Variables, research and null hypothesis.
- Survey Design: non-experimental, experimental, factorial, longitudinal, cross-sectional designs.
- Sampling: Population and the sample, target group, probability and non-probability sampling.
- Data Collection: questionnaire – reliability and validity, interview, observation, the pilot study.
- Data Analysis (quantitative)
- Qualitative Research: content analysis, case study.</td></tr>
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	- Introduction to the concepts and principles of Evidence-Based Practice (Evidence-Based Practice). - Existing Models and Theories related to the implementation of the EIA - Implementation of PVE after a study of morbidity and mortality, from existing indications for changes in care that are likely to lead to improved clinical outcome, reduced costs and reduced relatively high incidence of errors. - The process of application of the Evidence Based Practice and the limitations in its application to quantitative and qualitative research data - Sources of indications. - The research query configuration and the advanced bibliography search. What are considered the most important databases for Nursing and Health Sciences and how we use them. - What is considered valid information and what we classify as an indication. - Critical evaluation strategies of research data - Application of Evidence Based Practice indications to a specific patient and evaluation of the whole procedure including the evaluation of the application process and its results - Research protocols of Evidence Based Practice and their implementation.
Teaching Methodology	The course is delivered to the students by means of lectures, conducted with the help of computer-based presentations and group work. Lectures presentations are made available for students for use in combination with the recommended textbooks.
Bibliography	**(a) <u>Textbooks:</u>** Θεοφίλου, Π. (2019). *Εγχειρίδιο μεθοδολογίας έρευνας: Εισαγωγικός οδηγός στις μεθόδους έρευνας στις κοινωνικές επιστήμες και επιστήμες υγείας*. Εκδόσεις: Βήτα. Craig J. V. & Dowding, D. (2019*). Evidence-Based Practice in Nursing*, 4th Edition. Elsevier Polit, D., & Beck, C. (2021). *ESSENTIALS OF NURSING RESEARCH: appraising evidence for nursing practice.* (10th ed.). New York: Wolters Kluwer Medical. **(b) <u>References:</u>** Dicenso, A., Guyatt G. & Ciliska, D. (2015). *Νοσηλευτική Βασισμένη σε ενδείξεις, Οδηγός για την Κλινική Πρακτική*. Broken Hill Publishers Ltd Nieswiadomy, R. M. (2013). *Νοσηλευτική Έρευνα, Βασικές Αρχές*. Ιατρ.Εκδ.Λαγος Δημήτριος *Through the services of the university library, access is provided to electronic repositories of scientific journals and articles, indicatively* ***ProQuest, Cambridge University Press*** and ***Science Direct*** *with thousands of scientific journals in the fields of health sciences.*

Assessment	The assessment of this course consists of the coursework (midterm exam, assignment) and final exam. **Mid-Term Exam: 30%.** A written midterm exam will be comprised by multiple choice questions, short answer and open questions. **Assignment: 10%.** A literature review containing the following elements: abstract, Introduction, aim, Methodology, Bibliographic Research on the Subject under Study, Discussion – Conclusions and References. Length of the assignment: 3,000-3,500 words (2 students) or 2,000-2,500 words (1 student). **Active participation of students in the class: 10%** which includes educational assessments with interactive problem solving questions. **Written Final Exam: 50%.** A written final exam will be comprised by multiple choice questions, short answer and open questions.
Language	Greek / English